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When NATHAN .. MILLER became Governor and took charge of the business of the State he found that supwere being purchased by department heads, bureau chiefs and managing clerks, for the most part at retail prices. There was no cooperation in buying, no central purchasing system that meant buying at wholesale prices.

Governor MILLER, clear headed business man that he is, said "This colossal waste has got to stop," and ordination in State purchases and put of money on this matter alone.

Governor SMITH appreciated the fact Russia. that the taxpayers' money was being wasted by this hand to mouth way of buying and sought to correct it with constitutional amendment which would have taken years to get through and get into operation. Meanwhile the waste of the taxpayers' money would have gone on.

Governor Miller cut out more waste in State printing. He put it on a business basis also. He cut out the printing that was not needed and insisted upon competitive bids for the work that was needed. He eliminated enough waste to save the State a half a million dollars a year in this matter alone.

And out of these savings and out of the savings from the central purchasing system of the State's supplies Governor MILLER built roads and did other useful and necessary things for the State.

Previous administrations had been building roads with bond issuespermanent debt charges fixed on the taxpayers. Governor MILLER doubled the road construction over that of his predecessor and paid cash for the work, cash that he saved by good management over the expenditure of other administrations.

For this clean cut business work as manager of the State's business: for doing the obvious thing, the the State's purchases of supplies and enforce its orders? We shall reserve common sense thing in respect of ing, Governor Mules will have to pay the price on election day. No man Governor or otherwise, can take easy money out of the pockets of the men who have been getting it, or out of the pockets of grafters, without having to pay the price.

But isn't the man who gives this kind of service to the people of the State a man of vision, a man of rare ability, a man of rare courage-isn't he the man the neonle of the State of New York should insist on keeping on the job, keeping at the head of their business, keeping as their Governor?

### Spectacle Everywhere.

When old fashioned theatergoers wonder why there are no more spectacular plays of the kind they used to love the fault is more in them than in their stars. They will admit that an occasional "Chu Chin Chow" comes along, but they will refer wistfully to "The Black Crook," "The in the East. Naiad Queen" and maybe "The It is interesting to note that this Twelve Temptations." Those are the highly efficient type of football, which plays that fix for them the signifi-

As a matter of fact, there was never so much spectacle to be observed in the theater as there is today. Every review is mounted with an expense and lavishness that would have taken the breath of the spectators who formerly wondered at the and decorators of distinction, architects of fame are called in to aid every prodigal manager who knows how to gain the interest of the which has kept his team unbeaten nal Discovery, is a considerable one

Old fashioned comic opera has been converted by the extravagance of managers and the taste of the find their counterparts in this fine edge since the time of Anistotic. public into the same kind of a spectacle. Imagine, for instance, two such masterpieces as "The Mikado" or leading virtue of the Penn State of the salmon reversed. The salmon "ba Fille de Mme. Angot" put before game is ability to keep the ball hid- leaves the sea and fights its way up the public to-day with their original den. Percy Haughton brought that simplicity of investiture. Would the incident of play to a high stage of deinnate merits that made them mas- velopment at Harvard, but BEZDEK go down to the sea and then return terpieces of their school serve to has gone Haughton one better. inland to repeat the life cycle. Some capture a public accustomed to the Penn State's game is the kind of varieties of salmon spawn only once:

there is little probability that there It is effective tootball, pretty fool Silk, canvas, paint and furbelows can be bought when managers are many of the courses he takes in his sufficiently generous and possess the necessary capital. Wit, melody and in short the genius that created the great works of every kind are not to be controlled by any human means. It is because spectacle seems such an impressive substitute that it abounds in the theater of the day as it never did before.

### The League That Doesn't Function

Europeans cannot get over the deto get the United States into the Wednesday Mr. LLOYD GEORGE said Tel. 9008 Wadaworth, Open until that he favored "every reasonable concession" in order to induce the United States to associate itself with night.
As Cornes-24 Court St Tel. Trithe League. He added that until all
cornes-cis Whins Avg., at 148th
des Mairone. Open until 10 P. M.
States were in the League that body States were in the League that body would be crippled.

Of course the only European coun-The New York Herald was founded by lames Gordon Bennett in 1835. It remained he sole property of its founder until his leath, in 1872, when his son, also James forcion Hennett, succeeded to the overstained in the hand of the paper, which remained in his hand became the property of Frank A. Munsey, its least owner, in 1920. ished Gerziany and chaotic Russia.

And the League does not work. It has been called upon in vain to per-Building Roads Out of Savings. form the most important duties of its support was shown by its spontanecovenant and it has failed.

invaded Russia without first submitplies to the amount of \$20,006,000 ting the boundary dispute to the balf that number an effective mili-League. Russia retaliated by invad- tary force in case of necessity. ing Poland. The League of Nations did nothing.

Armenia appealed to the League in 1920 to protect her from Turkish invasion. The League did nothing and independent nations.

pealed to the Council when the Rushe stopped it. He brought about co- sian Soviet army invaded her in 1920. Poor Persia believed that Article X. in effect a purchasing system that guaranteed her against external aghas already saved the State vast sums gression. But the League was asleep depriving them of their ability to deand Persia had to buy peace from

When the Soviet invaded Georgia that independent State asked the League to act under Article XI. The League did nothing.

In the fall of 1920 the League woke up to the row between Poland and a truce from both sides. A month after the suspension of hostilities the Poles took Vilna and they have it yet, scorning all League proposals looking toward compromise.

If the League Covenant meant anything the Council would have called a Italian Socialists, for he was a memhalt on the Greeks at the very beginning of their Asiatic campaign-a project which led to the Smyrna horror and the danger of involving half of Europe in another war. But

the League, as usual, did nothing. If a league which includes the British Empire, France, Italy, Spain, Belgium, the Netherlands-all of Europe, in fact, except Germany and Russia-has no force, how does Europe expect that the addition of this country to the league's membership

Is it American money that would help? This country has been liberal with Europe in money matters; so liberal that some Continental nations smile at the mere idea of repaying our loans.

Is it American armies and fleets that the league would like from us to in cutting out waste in State print- them for our own wars if unfortu-

The United States is not going into the League, because the League is nothing but a name. The instant there is friction between Old World nations the members of the League ine up on the sides of their particular advantages. They do not think in the terms of the Covenant. They think in terms of nationalism.

It would be wrong to say that the League is dead. The League never has been alive.

### Football Strategy.

point out the close relation between the strategy of their game and the wipe their glasses reflectively and science of warfare were in their glory at the Polo Grounds yesterday when Penn State had it out with Syracuse. The distinctive style of the Pennsylvanians approximates the laws which govern military movements more closely than that of any other eleven

> lays stress on deception and the element of surprise as well as shock action, was developed by Hugo BEZDEK, an American of Bohemian-Polish extraction, who learned his combined the best points of all types of play into one style of football over a stretch of three years.

game of football which has grown under the teaching of BEZDEK. A of uncommon interest added, is that

football that interests the vision as others make the long journey several The gorgeous decorations of our well as the mind and makes an ad- times.

will be a return to the older manner. ball. It's the kind of football that develops a man more than a good classrooms.

### The Fascisti in Power.

The Fascisti have reached a posttion in Italy which the first Fascista groups formed two years ago could scarcely have dreamed of attaining. They are in complete control of many of the industrial centers of northern Italy, an important factor in State affairs and a power in national politics with their leader, BENITO Mussolini, strong enough to overthrow a Ministry and to dictate the com-League of Nations. In his speech on position of its successor. They are not only at the height of their power but at that point where they must submit to the supreme test of proving their ability to build upon a toundation of order and patriotism a new national life for Italy.

This means that the Fascista or ganization is to show its right to an existence upon the reasons assigned tries which have not joined the by its earliest disciples. In its in-League are Germany and Russia. All | ception the Fascista movement was the others, big and little, old and a reaction of the middle classes new, are members. It has seemed against the socialists' régime of violence, to which several northern prov-Western Hemisphere that Europe can- inces were subjected and against the governmental conditions, especially League is at all practicable, without those during the Premiership of Signor Nirri, which made this violence and its accompanying excesses possible. That its appeal was a popular one and that it met with national ous development and its remarkable Poland, a member of the League, growth. The Fascisti claim now an enrollment of almost 1,000,000, with

The Fascisti went to the meeting last week at Naples with the primary purposes of their organization attained. They had met violence with violence and they had overthrown Armenia was wiped off the map of Bolshevism wherever it had gained a foothold in Italy and had swept Persia, a member of the League, ap- the country clear of the Moscow propagandists. By their defeat of the extreme socialists at Milan and Genoa early in the summer they overthrow the radical parties, and by clare a general strike they took from them their chief political weapon and alienated a great bulk of their following. There thus remained to the Fascisti at the Naples meeting only the governmental problems. And this is the reason that for practically the first time the organization Lithuania and extracted a promise of is assuming its present aggressive attitude in affairs of the Government and demanding that it have a voice

in the formation of the Ministry. Mussolini is himself a politician of considerable experience. He knows as well as a man possibly could the ber of the party and editor of Avanti, the chief organ of the north Italian Socialists. He likewise knows the shrewdness of Giolitti, who is able to control the party, and appears today as one of the most likely candidates for the Premiership. That a fact, that it was a national necessity. has been evident for the past few weeks. FACTA came into power because no one else could be found to form a Government. He was as unsatisfactory to the socialhe was especially objectionable. There late autumn and early winter. were grounds for Mussblini's state-

that he intends to have his organizathat he himself will be a power in any Government which may be

The Fascisti have in the past pro fessed the general good of Italy their sole purpose. They have a creditable record of achievements in counter-acting radical influences and excesses, in the protection of individual and State property, the maintenance of order and the revival of Italian Followers of football who like to patriotism. That they have sometimes achieved their ends by violence is true but their organization was founded to combat violence and in many cases they have attempted to justify their action by the urgency of the situation. It would seem that the time for a resort to arms has passed and that while Italy needs a stronger Ministry than she has had she does not need a Government upheld by the arms of a non-governmental

### A Deep Sea Marvel.

organization.

The life history of the salmon has long been counted one of the most interesting known to biology, but a game at the University of Chicago, Danish zoologist, Dr. Schmidt, is now nut his theories into practice as coach completing researches into the life at the University of Oregon, and history of the eel, which in the then swept back all the way across glimpse they give of great natura the continent to perfect his science forces constitute an even more en at Penn State. Bezozk seems to have grossing addition to our knowledge His achievement, as recorded this month in the English scientific jourver a stretch of three years.

In marine scology, because the life
The barrage, the gas screen, the history of the common cel has been feint, the parry, the sharp thrust, all anybody's guess and nobody's knowl-

The story of the eel, with element

day would be missed. Moreover, miring student even of the calm tyro. Until Dr. Schmidt made his dis-

where the eel spawns. Now we know that the eels of Europe leave the lakes and ponds and rivers when they reach maturity and head across the Atlantic to a small area of the ocean about 2,500 miles southwest from the English Channel. There they spawn, and from there the young eels begin a journey to the inland waters of Europe which takes them three years to accomplish. To the same breeding ground comes a variety of American eel whose young make their way to the inland waters of the United States and Canada The adult eels, having spawned, never

leave the sea. Dr. Schmidt found that the further he sailed southwest from England the smaller the young eels became They were also increasingly numerous. He found the spawning beds about 1,000 feet below the surface. The eggs are laid in spring and early summer; the larvæ, as they grow during the first summer, slowly move up toward the surface. A year later they are in mid-Atlantic, and the summer after that they are off the

coasts of Europe. For ten months following this third summer the larvæ, now grown to be elvers, take no food at all. They live on their fat and persistently make their way up the rivers. All this time they are undergoing a physical change which adapts them for

fresh water life. This whole process in itself is a which impel the eel, a fish we regard as a sluggard, to an extraordinary expenditure of energy for the reproduction of its kind. But perhaps the most remarkable feature of the eel's life history is the certain instinct which starts the European eel toward the continent of his inheritance and which impels the American eel no less unerringly in the direction of his. Dr. SCHMIDT has sometimes scooped up larvæ of the two species in the same net.

Should that impulse be disobeyed the young eel would perish. If the European larva turned toward this coast, with more than three years of organic development still before it, it that development was complete. If 16th. After the seco Europe, with its organism gauged for a much shorter journey, it would die

breeds in the ocean, but it was left

### Sunrise in a Ducking Blind.

the coming of a new day at this season are the sportsmen in sink box

or blind awaiting the flight of ducks. handiwork will not find the half hour's wait between darkness and dawn irksome, nor will the picture spread before his gaze ever be renew Cabinet would be formed, in peated. Each sunrise will bring its own glory. The whistling of busy wings in the darkness overhead, betokening the passage of an unseen quarry, will stir the blood and make the heart of the watcher beat faster.

The appeal at such a time is one ists as he was to the Fascisti. To a of the rewards of true sportsmanman of Mussounr's aggressiveness ship incidental to ducking in the

All over the Union armies of duck mier-he may be more content with simon pure, hard boiled sportsman is of the Fascisti-but it is very clear sweater, has his bacon, eggs and coffee by lamplight, hies to his point tion represented in the Ministry and of vantage and sees the sun come up.

> The American contractor who cam away from London in disgust because he could not persuade the natives to let him build dwellings without open freplaces may be right, but when he criticizes Londoners for their loyalty criticizes Londoners for their loyalty to old fashioned ideas in architecture

A horse that can box and also play

A horse that can box and also play the cornet is about to visit America. It is to be hoped that it will not be put to shame by an automobile excelling it in unusual gifts.

There were clams aplenty, with but few willing clammers. I met a young put to shame by an automobile excelling it in unusual gifts.

Even the most determined opponents of the native habit of whistling will admit that it had good effects in the case of the cripple who was imprisoned in a refrigerator car with no chance of rescue until he began to the course and the course and the course are fixed \$600. The shells are a valuable to the course and the course are fixed \$600. The shells are a valuable to the course and the course are fixed \$600. The shells are a valuable to the course and the course are the course and the course are fixed \$600. The shells are a valuable to the course and the course are fixed \$600. The shells are a valuable to the course are fixed \$600. The shells are a valuable to the course are fixed \$600. The shells are a valuable to the course are fixed \$600. The shells are a valuable to the course and the course are fixed to the course and the course are fixed \$600. The shells are a valuable to the course are fixed to the course and the course are fixed to the course and the course are fixed to the course are fixed to the course and the course are fixed to the course are fi prisoned in a refrigerator car with no chance of rescue until he began to whistle to keep up his courage and attracted by the familiar sound the attention of those who had ignored his calls for help.

# One must a lie despise, And yet, and yet, His soft sweet maze of lies

Twas in a dim bassar-The vivid scene;
He, with each eye a star,
A Damascene! "Howadji, this," he said,

A scarf in hand,
"Once decked a princess' head
In Samarcand. "And this-" a blade of price "Was once a Shah's; This opal, hued like ice,

"This-" and a coin he tossed Gold as the sun— 'Was blazoned and embossed By Solomon!" Magic!-a genie's spell

In voice and eye! Beneath them both, pray tell, Who could but buy? One must a lie despise,-

Its turing net-But his sweet maze of lies Beguiles me yet!

### Flight Without Motors

## From Blind Bay up to Mongaroo, From Pitcherspoint to Calcasieu— Louisiana! Don't you hear that call? Oh, Tallulah, Ponchatoula, Zwolle, Practical and Scientific Aspects of the Rapidly Developing Art of Gliding.

Recent achievements in motorless axes." This means that when there is

flight, variously designated as gliding, soating and salling, have attracted considerable attention and much discussion has arisen as to the practical and millimotor of the glider as seen from the earth by adding the velocity of the wind to the motion of the glider in still air; in other tary value of this new development as well as to its scientific significance. while many authorities anticipate nothing more than the emergence of a new "sport," and ascribe little importance to motorless flights, others of a more imaginative turn of mind foresee great possibilities in this type of aerial navigation. The motorless flying machine has even been proclaimed as heralding the doom While many authorities anticipate noth-

It is certainly premature to attempt a forecast of the future of flight in a De Ridder, Dubberly, King, Cinclere, latt, Aimwell, Eggbend, Natchetoches ments with gliders were made more than a generation ago, long before any airplane containing a motor rose into the air and executed a real flight. But Lilienthal, Pilcher, Chanute, Orville Wright and others were not able to stay aloft in a glider more than a few minutes; whereas during the recent com-Baton Rouge, Olive Branch, Tickfaw hour and Hentzen stayed in the air two hours, and later three hours, performing evolutions of an intricate character. It is therefore clear that the art of gliding wind flight. Given a steady wind with uger, Oakle, Nickel Plate, Bistinear Tangipahoa, Conshatta, Sturns, Solleau,

chines were in the air.

It is clear that in a quiescent atmos

motion through the atmospheric resisting

Although it should be obvious that the

Prayer for the Little Ghosts.

Whistle at the levee.
Hear the steamboat hail. Roll that hogshead, Swing that bale. Creole, Chataignier, Tena, Lena, Lillie, Plain Dealing. La Fourche, St. Rose,

Broussard, Terribonne, Bayou Goula, Buressa, Gross Tete, Chacahoula. Magnolia blossoms

Down in the cane brake,

cegrove, Verger, Dido, Lacasine,

Vernado, Taisneek, Placquemine, Violin, Manifest, Timballer, Chappeau Pe'a, Houma, Grand Chenier, Galllon, Jeanerette, Raccour, Breaux, Camindaville, Nean, Naff, Thibodaux.

Briers patch the tangle, And the wild grapes smell.

Chandeleur, St. Bernard, Delcour, Fen

ton, Water Proof, Cutoff, Gheens, Mermen

Elephant Pass, Rigolets, Ouachita,

Bear in the hollow,

Turtle in the mud, Marsh rice ripples,

Ventune, Pilottown, Buras, Bonita,

Serpent, Carrenco, Sinope, Toro, Poydras, Reggio, Banks, Moore, Moro,

And the sugar cane's good.

Rayne, Opelousas, Manchac, Ponchartrain,

ecompte, Welchton, Kelly, Arcola, hondrant, Pelican, Mound, Eola.

Moss drapes the livecak,

Curtain for the dell :

Along the bayou,
'Gator en a logAnd a moccasin too.

In the silver scenes; Mississippi ripples Down to New Orleans.

### November Weather.

Prediction of a Month of Rain and Fluctuating Warmth.

To THE NEW YORK HERALD: Novemorganic development still before it, it ber will warm up with rains until a out a motor as distinguished from en-would reach the river mouths before dip comes in the temperature about the gine flight in an airplane. the American larva turned toward be more rains and fluctuating warmth, ooling off by the 20th.

After the 25th it will be warmer, with derive energy from the air in some

The mysterious manner of which we have as yet no knowledge is a question that rains before and after the 25th. Zoologists have been of the opinion for some years that the common eel breeds in the ocean, but it was left.

Allow two days of the whole.

the storms, except when the cool turns of movements in the sir. In construction the dry periods a couple of tion the gliders used look like airplane for Dr. Schmidt to discover where, and to unfold this astonishing life cycle in all its phases.

or movements in the life course of movements in the life course of the discover where the days, and remember that the temperature is going down a degree every three turns is going down a degree every three cycle in the flights were the various true is going down a degree every three true is going down a degree every three cycles. days, so the cold changes are growing types of winds that blew while the maand lengthening, while the warm spells Among those who get most out of the second or moderate intensities the through the air in a motorless machine third week. This would leave only the second week as a fair one. Snows will it. e., in the sum of the kinetic and pooccur in the north around the two prin-The true lover of nature and her cipal cold times. A. D. ELMER.

### Good Roads Statistics.

The Records of Governor Miller and Governor Smith Compared.

To THE NEW YORK HERALD: As the good roads work is of vital importance to the rural and urban population alike, and as misleading statements have been against the present State Highway De-partment, the following figures, compiled from your editorial article of October partment, the following figures, compiled from your editorial article of October 24, will, I think, be of interest to and easily understood by all lovers of good roads and fair play:

NEW EGAPS.

order to supply this energy it is necessary to gay a few words about the case of a steady horizontal wind, since it has been claimed that "once the airman has left the ground he gets his energy from the wind, which may be level and steady." That is not correct, as can be steady." That is not correct, as can be

T. VAN ALLER. SCHENECTADY, October 28.

### Pearls in Illinois.

Clams Plentiful but Clammers Few in the Rock River District.

To THE NEW YORK HERALD: An arti-God, for the little ghosts we pray.
If it be true, as old folk say, by me recently to the pearl clammers of the Rock River section in Illinois.

tused \$600. The shells are a valuable They'll come where the Ægean rolls asset, bringing \$40 a ton. Button fac- These little ghosts so newly dead. ories buy them.

Dear God, they must be comforted!

Several years back the clammers used They are so frightened, God, and small

to buil the clams in order to open them. They will not understand at all, which rendered the shell unfit for but- But only stare with wondering eye tons. Nowadays they heat the water, but not hot enough to scald the hands, when the clams open readily.

Carp are plentiful and a nuisance to His bleeding feet. We pray that You

the clammers. They are soft and flabby, Will comfort them the long a seemingly not an article of food. They are fed to chickens, which cat them Then bear them to that Country far under the country for the c under protest. I saw two thrown into Where all the anxious mothers are, a hen yard that weighed fourteen and So bring them peace and love again This is our earnest prayer. Amen. VILDA SAUVAGE OWENS. JOSEPH M. DRETNWOIS.

Barpospost, Conn., October 28. Political Posters on Trees.

#### How Fast the Blood Flows To THE NEW YORK HERALD: It is a It Takes 20.7 Seconds to Pass From misdemeanor to attach a sign to a tree in a public highway. Diana Adams should have a warrant served on the politician who has been thus displaying Arm to Arm in Healthy Men. From the Journal of the American Medica

Association.

Koch estimates the speed of the flow of the blood by injecting a stain into one arm while the blood is his pictures. BERLIN, October 28. dripping from the corresponding vein in the other arm. Every five seconds the escaping blood is examined for the first appearance of the stain. In sixty-eight Headquarters of Near East Relief Association Is at 1 Mudison Avenue. To THE NEW YORK HERALD: What is ss of the Near East Relief Ashealthy women and fifty-one healthy men the interval was 20.8 seconds in the ociation? (Mrs.) B. P. Johns. Stampord, Conn., October 28. former and 20.7 in the latter. In nine teen patients with circulatory disturb ances the interval was nearly three time A Kansas Explanation From the Jewell Republican.

The world never builds any monument wing men—they are liable to act the

as long, the range being from 30 to 63 seconds. Of the seven patients with an interval over 56, six died within a few

time, or climb. For these purposes the wind must be upward or variable.

has entered upon a new phase and the sufficient upward vertical component a scientific problems involved merit care-

evolutions similar to those of ordinary airplane flight.

It is not necessary, however, to postu-late steady upward wind. If the wind is variable, and this is, of course, usually As already indicated there is considrable diversity in the names given to the flights thus carried out without the the case, energy can be derived from the wind even if it is horizontal or mentioned above are really unsuitable. The term gliding is reminiscent of descent in an airplane, while the real indownward. This can be seen by a little analysis based on the ordinary equations of motion of the glider. Thus, suppose that the wind is in a straight line but of terest of recent events has been in the fact that pilots were able to stay in the air very long without the help of a mo-tor, and in fact performed climbing varying speed. If we write the accel-erations in these equations in terms of the motion relative to the air we readily feats. The term soaring is less unsultable, but it suggests climbing as the essential thing, whereas in reality horizontal flight in a glider is just as differfind that the motion of the glider rela-tive to the air is the same as if the air were at rest and a force per unit mass were given to the glider in a direction ent from airplane flight as climbing in a priate as a description of the flight in question. Perhaps the term wind flight is a really suitable name for flying withional to the acceleration of the wind.

he rising wind and the wind varies propulsive effect is obtained by pointing the machine with the wind, It follows ment of motorless flight. Whether birds that in a fairly sudden gust, which can be taken to consist of a quickly increas-ing wind followed by a quickly decreas-ing wind, the pilot can take advantage does not arise in the present connection. The successes achieved have been the outcome of careful study of design and of both phases by pointing the machine into the rising wind and with the falling wind. Quick maneuvering is of course essential as well as an intimate acquaintance with the movements that are always taking place in the air.

With more complicated variations in the wind more complex results are ob the future of wind flight is associated

(1) The motions that are continually taking place in the atmosphere need to be studied, not only the meteorological tential energies. It follows that in the absence of wind real flight, namely. wind phenomena as ordinarily under-stood but particularly the detailed air have paid for the development of flight in which the machine maintains its level for some considerable time or rises still higher above the ground, is

not possible without a source of energy like an engine. It is the presence of wind that puts in the hands of the pilot a source of energy which can be used to neutralize the loss of energy involved in qua non, since so much depends upon taking as full advantage as possible of any temporary and often unanticipated motion in the air.

wind must be upward or unsteady in order to supply this energy it is necesress of the art. Only in very excep-tional circumstances can the motion of a glider be steady. Upward steady winds or uniformly varying winds are

the label of the airmin. In the pro-tional circumstances can the motion of a glider be steady. Upward steady winds or uniformly varying winds are

Helium is chemically inert. It will not ment that this Ministry was too weak for the nation and should be supplanted by one backed by the new leading the pastime. Many men find delight in Italian spirit. It is doubtful, however, if Mussolini seeks to be Preserver, if Mussolini seeks to be steady. Upward steady. That is not correct, as can be winds or uniformly varying winds are steady. That is not correct, as can be winds or uniformly varying winds are steady. That is not correct, as can be winds or uniformly varying winds are steady. That is not correct, as can be winds or uniformly varying to preserve of the glider relative to the earth; (2)
Gravity components; (3) Forces and this respect wind flight must generally differ in essence from engine flight. In the latter steady flight is the rule, in the relative to the mir.

with respect to leakage through gen. The reasons hitherto given for not using it are its scardity and its great former steady flight is bound to be a cost, both of which are being met and comparative rarity. The pilot must therefore learn from experience and from calculation to know what to expect from his machine under different conditions. The dynamics of wind flight should be a fruitful subject of study both for the aviator and the mathemathe accelerations, with reference to the motion of the glider relative to the air. When this is done for a steady wind the resulting equations are exactly of the same form as if there were no wind at all, since the moving "air axes" move uniformly as seen from the "earth

reeks. About one cubic centimeter o

Identifying a Prophet.

To THE NEW YORK HERALD: Who is this guy D. A. N. Grover who frequently makes astrological and astronomical cracks in your paper? He has a smug way of telling the world all about how

the planets and stars affect our earth and human affairs—just as though he were an agent of the universe. JOHN C. MOORE. WHITE PLAINS, October 28.

Arkansas's Arbereal Cows. Prom the Hardy Herald.
One of Wallace Hightower's milk got fast in a tree top and broke one cogs a few days ago.

The sun behind a cloud Enough for you-But not for me.

I think I cannot laugh With you Unless the sunlight Flickers through.

You may be greater On the pane

Like bitter tears And I have wept-While you were Smiling as you slept Abracadabra.

Gnostles Used It as a Charm and a

Cure for Disease. To THE NEW YORK HERALD: The abracadabra was used as a charm by a sect of Gnostics of the early Christian period. The Gnostics of this period wans

tients to write the abracadabra on a bit of parchment cut in the form of a cross. This was suspended by a strand

adding the velocity of the wind to the motion of the glider in still air; in other words, to an observer traveling with the wind the motion of the glider would not reveal any effects that can be attributed to the steady wind.

In a horizontal steady wind, therefore, real flight is no more possible without an engine than in absolutely windless air? Any argument that lead to a contrary conclusion must have a fallacy somewhere, if we are to have any confidence in the principles upon which all our mechanics are based. It is true that a steady horizontal wind can be pilot can get off the ground with less initial speed than in still air. Further, when the machine is already in the air the pilot can, by pointing it with the wind, increase the horizontal distance traveled before reaching the ground again. But a steady horizontal wind cannot make the machine stay at the same level in the air for any length of time, or climb. For these purposes the wind must be upward or variable.

A Gnostic physician advised his paction that to write the abracadabra on a bit of parchment cut in the form of a cross. This was suspended by a strand so that it rested over the stomach. After nine days it was to be cast into a stream of clear water flowing eastward. This sequen. A cats insured the cure of clear water flowing eastward in the country of the Gnostics.

According to a broad over the stomach. After nine days it was to be cast into a stream of clear water flowing eastward in the cure of clear water flowing eastward in the country of the Gnostics.

According to machine the two winds and a unique personality and a bumptious style of address that attraveled before reaching the ground again. But a steady horizontal wind cannot make the machine stay at the same level in the air for any length of time, or climb. For these purposes the wind must be upward or variable. term quickly became a byword and as quickly was forgotten. OBSERVER.

MOUNT VERNON, October 28.

### Pedestrian Records.

George Littlewood Credited With Going 623 Miles in Six Days.

TO THE NEW YORK HERALD: Regard ing the letter from Mr. Heston relative to the pedestrian record of James Albert Cathcart of 621 miles 1,820 yards in six days, which is described as a world's record, let me say that in T. S. Anrunning 400 miles in 84 hours 31 min-utes 18 seconds, February 9, 1532, George Littlewood of Sheffield, England, an 600 miles in 135 hours in six days in New York city, November

In the go as you please races of 143 hours George Littlewood is credited with the record of 623 miles, James Albert Cathoart 621 miles, P. Fitzgerald 610 and Charley Rowell 602 miles.

The professional walking record is 531 miles 135 yards by George Littlewood in 138 hours 48 minutes 30 seconds, in March, 1882. The amateur walking record for 600 miles is credited to James H. Hocking, born in Cardiff, Wales, in 1856, New York to Cleveland. Ohio, 138 hours, May 80 to June 10,

910. JAMES BUCHANAN. NEW YORK, October 28.

### The Cost of Helium. Is It Greater Than the Cost of the

Airships Destroyed by Fire? To THE NEW YORK HERALD: The exto use helium gas instead of hydrogen with which to inflate airships will meet emphatic public approval. Already and explosion of hydrogen has cost a lamentable toll of lives and a financial loss that half a dozen times over would

sources of helium. Hydrogen is one of the most inflam-(2) Motorless flight presents prob-lems of design that are different from flammable but a mixture of hydroger because the glider is a much lighten ma-chine than the airplane. Stability is the engines and in the operation of essential, but easy control is a sine these the electric spark is an essential feature; it ignites the gases which create the power. A leak of gas which reaches the electric spark or one from the exhaust of the motor may result (3) The rigid dynamics of wind flight in an explosion or it may set fire to is also an important factor in the prog-

from the natural gas wells in two Oklahoma. There is a small area in southern California, another in Mentana and a very promising horizon in Ohio, near Cincinnati. Tests covering the natural gas horizons show that helium occurs in more than 150 wellar the stain is injected into a vain at the and in proportions varying from one bond of the elbow. A delay in the ap- fifth of 1 per cent. to more than 3 per bond of the elbow. A delay in the appearance of the stain in the other arm is an early sign of incipient insufficiency of the circulation.

This stain test is simple and harmless, he says, and can be repeated at will His tables show the findings in five diabetics. five pneumonia patients. Mirteen convalescents, six with polycythemia, leukemia or pernicious anemia, nine with the high blood pressure of kidney disease, and other groups, to a total of 400 applications of the test.

Hith of 1 per cent. to more than 3 per cent. to more than 3 per cent. As a matter is an extra the gradient of fact, the surveys and tests are sorely more than a superficial overlook at the present time. The supply new available comes from a few gas wells in the vicinity of Fort Werth. Texas, and from the Kansas-Oklahoma horizon. From the wells petentially productive the United States Geological Survey estimates that more than 350.000 calls for the next two or three years. But gas wells are short lived and a fudaily for the next two or three years But gas wells are short lived and a fu

> other wells.
>
> The process of separation of the helium from the other contents of disgas wells is simple in theory but costly in practice. Helium liqueñes at a temperature far below that of the liqueñation temperature of the gases with which it is mixed—as a matter of fact close to the absolute zero of temperature. The other constituents are liquefied under pressure and intense cold; the helium is

During the war the cost of the process was reduced from a figure which had been prohibitive to approximately tencents a cubic foot. From time to time since the cost has been materially lowered. With a certain and a steady decreased with a certain and a steady decreased. mand it is not unlikely that the cost the war time figures. Whether or no he use of helium may be considered economical depends upon the value placed upon the lives of trained airship MOUNT VERNON, October 28.

On a Continuous Vacation From the Urich (No.) Herald.
The man with plenty of sand, a wide
orizon and a cool head is a summer resort

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